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1 Applications on the go: MediaAlert: a broadcast video monitoring and alerting system for mobile users
Bin Wei, Bernard Renger, Yih-Farn Chen, Rittwik Jana, Huale Huang, Lee Begeja, David Gibbon, Zhu Liu, Behzad Shahraray
June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**
Publisher: ACM Press
Full text available: 📄 pdf(593.10 KB)   Additional Information: full citation, abstract, references

We present a system for automatic monitoring and timely dissemination of multimedia information to a range or mobile information appliances based on each user's interest profile. Multimedia processing algorithms detect and isolate relevant video segments from over twenty television broadcast programs based on a collection or words and phrases specified by the user. Content repurposing techniques are then used to convert the information into a form that is suitable for delivery to the user's mobi ...

Keywords: alerting, automatic speech recognition (ASR), content adaptation, content repurposing, mobile devices, multimedia messaging, multimedia processing, news monitoring, notification, service platform

2 iMobile EE: an enterprise mobile service platform
Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(2.90 MB)   Additional Information: full citation, abstract, references, index terms

iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

3   An application level video gateway

Elan Amir, Steven McCanne, Hui Zhang
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: htm(54.34 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: conferencing protocols, digital video, efficient transcoding, image and video compression and processing, multicasting, networking and communication

4   An active service framework and its application to real-time multimedia transcoding

Elan Amir, Steven McCanne, Randy Katz
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '98**, Volume 28 Issue 4
Publisher: ACM Press
Full text available: pdf(1.80 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Several recent proposals for an "active networks" architecture advocate the placement of user-defined computation within the network as a key mechanism to enable a wide range of new applications and protocols, including reliable multicast transports, mechanisms to foil denial of service attacks, intra-network real-time signal transcoding, and so forth. This laudable goal, however, creates a number of very difficult research problems, and although a number of pioneering research efforts in active ...

5   Architecture and performance of server-directed transcoding

Björn Knutsson, Honghui Lu, Jeffrey Mogul, Bryan Hopkins
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(927.92 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Proxy-based transcoding adapts Web content to be a better match for client capabilities (such as screen size and color depth) and last-hop bandwidths. Traditional transcoding breaks the end-to-end model of the Web, because the proxy does not know the semantics of the content. *Server-directed transcoding* preserves end-to-end semantics while supporting aggressive content transformations.We show how server-directed transcoding can be integrated into the HTTP protocol and into the implementat ...

Keywords: HTTP, proxy, transcode, web

6   Network support for mobile multimedia using a self-adaptive distributed proxy

Zhuoqing Morley Mao, Hoi-sheung Wilson So, Byunghoon Kang
January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video**
Publisher: ACM Press
Full text available: pdf(212.65 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Recent advancements in video and audio codec technologies~(e.g., RealV ideo [18] make multimedia streaming possible across a wide range of network conditions. With an increasing trend of ubiquitous connectivity, more and more areas have overlapping coverage of multiple wired and wireless networks. Because the best network service

changes as the user moves, to provide good multimedia application performance, the service needs to adapt to user movement as well as network and computational res ...

7 The design and applications of a context service

Hui Lei, Daby M. Sow, John S. Davis, Guruduth Banavar, Maria R. Ebling
October 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 4
Publisher: ACM Press

Full text available: pdf(87.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

Context awareness enables applications to adapt themselves to their computing environment in order to better suit the needs of the user and the tasks. This paper describes a general middleware infrastructure for context collection and dissemination, realized as a Context Service. By way of two example applications, this paper also illustrates how context information provided by our context service can be exploited to enhance the user experience. These two applications are built upon the abstract ...

8 Session 4: video processing and transformation: Tile boundary artifact reduction algorithms for tile size conversion of wavelet image

Masayuki HASHIMOTO, Kenji MATSUO, Atsushi KOIKE, Yasuyuki NAKAJIMA
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**
Publisher: ACM Press

Full text available: pdf(309.48 KB)   Additional Information: full citation, abstract, references

This paper proposes the tile size conversion method for the wavelet image transcoding gateway and a set of methods to reduce the tile boundary artifacts caused by the conversion.In the wavelet image coding system represented by JPEG2000, pictures are usually divided into one or more tiles and each tile then transformed separately. On low memory terminals such as mobile terminals, some decoders are likely to have limits on what tile sizes they can decode. Assuming a system using these limited dec ...

9 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(340.33 KB)   Additional Information: full citation, abstract, references, index terms, review

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

10 Composite Device Computing Environment: A Framework for Situated Interaction Using Small Screen Devices

Thai-Lai Pham, Georg Schneider, Stuart Goose, Arturo Pizano
January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 1
Publisher: Springer-Verlag

Full text available: pdf(97.91 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Contemporary small screen devices are used as personal companion or communication devices. However, their physical dimensions constrain the processing, communication and user interface capabilities. Thus, rich content presentation and diverse service access via small screen appliances is limited accordingly. This paper introduces the Composite Device Computing Environment (CDCE) that provides a framework for dynamically detecting and utilising surrounding computing resources to overcome the smal ...

11 <u>Disconnected processes, mechanisms and architecture for mobile e-business</u>

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li
December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(625.38 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e-business in various consumer and business markets. In this paper, we present a novel architecture and framework for end-to-end mobile e-business applications (e.g., point of sales). The architecture takes into consideration disconnection, application context, synchronization, transactions and failure recovery ...

Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote disconnection, seamless business transaction

12 <u>Mobile code: The ACTIVE IP option</u>

David J. Wetherall, David L. Tennenhouse
September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications**
Publisher: ACM Press
Full text available: pdf(629.44 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

In this paper, we discuss our work on an active network architecture in which passive packets are replaced with active capsules --- encapsulated program fragments that are executed at each switch they traverse. This approach allows application-specific processing to be injected into the network. The accessibility of computation and storage "within" the network provides a substrate that can be tailored to build global applications, including those that invoke customized multicast and merge proces ...

13 <u>Application-layer mobility using SIP</u>

Henning Schulzrinne, Elin Wedlund
July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: pdf(1.34 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

14 <u>Towards an active network architecture</u>

David L. Tennenhouse, David J. Wetherall
April 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(1.58 MB)   ·   Additional Information: full citation, abstract, citings, index terms

Active networks allow their users to inject customized programs into the nodes of the network. An extreme case, in which we are most interested, replaces packets with "capsules" - program fragments that are executed at each network router/switch they traverse.Active architectures permit a massive increase in the sophistication of the computation that is performed within the network. They will enable new applications, especially those based on application-specific multicast, information fusion, a ...

15   Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

16   Proceedings - only: The data management problem in post-pc devices and a solution

Ramakrishna Gummadi, Randy H. Katz

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: pdf(104.50 KB)   Additional Information: full citation, abstract, references

The demand for network-enabled limited-footprint mobile devices is increasing rapidly. A central challenge that must be addressed in order to use these next-generation devices effectively is efficient data management --- *persistent data* manipulated or required by applications executing on these computationally and communicationally impoverished devices must be *consistently managed* and made *highly available.* This data management has traditionally been the ...

17   Mobile applications: Impromptu: managing networked audio applications for mobile users

Chris Schmandt, Kwan Hong Lee, Jang Kim, Mark Ackerman

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available: pdf(240.36 KB)   Additional Information: full citation, abstract, references, index terms

This paper discusses the software architecture of Impromptu, a mobile IP-based audio computing platform, with an associated set of network-based applications and services. Impromptu merges the communication properties and universal mobility of the telephone with the multi-tasking and open protocol world of the handheld PC. Its supporting architecture handles multiple streaming audio applications, provides speech services for consistent audio user interfaces across applications, and enables user ...

Keywords: WiFi, architecture, audio applications, audio interface, mobility, multi tasking, speech interface, telephony, voice over IP

18 Terminating telephony services on the internet

Vijay K. Gurbani, Xian-He Sun
August 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 4
Publisher: IEEE Press
Full text available: pdf(544.74 KB)   Additional Information: full citation, abstract, references, index terms

We propose a general purpose service architecture for realizing services which start in the Public Switched Telephone Network (PSTN) but terminate and execute on the Internet. We discuss the needs for such services, our early research efforts in this direction which lead to prototyping certain benchmark services, and the current state of work in this area. We demonstrate the feasibility of the architecture by focusing on services which involve wireline PSTN as well as the wireless aspects (2 G, ...

Keywords: HTTP, SIP, internet, public switched telephone network(PSTN), services, wireless, wireline

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☐ 1. **Optimal allocation of packet-level and byte-level FEC in video multicasting over wi wireless networks**
Lee, T.-W.A.; Chan, S.-H.G.; Qian Zhang; Wen-Wu Zhu; Ya-Qin Zhang;
Global Telecommunications Conference, 2001. GLOBECOM '01. IEEE
Volume 3, 25-29 Nov. 2001 Page(s):1994 - 1998 vol.3
Digital Object Identifier 10.1109/GLOCOM.2001.965922

AbstractPlus | Full Text: PDF(135 KB)   IEEE CNF
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☐ 2. **Scalable video delivery to unicast handheld-based clients**
Chow, R.K.Y.; Chen-Khong Tham;
Networks, 2000. (ICON 2000). Proceedings. IEEE International Conference on
5-8 Sept. 2000 Page(s):93 - 98
Digital Object Identifier 10.1109/ICON.2000.875774

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☐ 3. **Compressed domain transcoding of MPEG**
Acharya, S.; Smith, B.;
Multimedia Computing and Systems, 1998. Proceedings. IEEE International Conference
28 June-1 July 1998 Page(s):295 - 304
Digital Object Identifier 10.1109/MMCS.1998.693658

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☐ 4. **Data conversion between EUROCOM D/1 data modes and the CCITT V.110 bit rate adaptation**
Simola, A.; Nieminen, T.;
Military Communications Conference, 1993. MILCOM '93. Conference record. 'Communi
on the Move'., IEEE
Volume 1, 11-14 Oct. 1993 Page(s):1 - 5 vol.1
Digital Object Identifier 10.1109/MILCOM.1993.408556

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S18	92	(transcod$3 near4 gate$way) and authenticat$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 08:28
S19	45	(transcod$3 near4 gate$way) and authenticat$3 and domain	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 08:28
S20	21	(transcod$3 near4 gate$way) and authenticat$3 and domain and (e$mail or (electronic near4 mail))	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 08:34

S21	25	(transcod$3 near4 gate$way) and authoriz$6 and domain and (e$mail or (electronic near4 mail))	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 08:35
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S25	6	"6335966" and (e$mail or (electronic near4 mail)) and domain	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 08:39
S26	2	"6335966" and (e$mail or (electronic near4 mail)) and log$$in	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 08:45
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S35	1	("6092114").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/15 18:13

EAST Search History

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S39	9	((e$mail or (electronic near4 mail))) same authoriz$6 same capabilit$3 and transcod$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 18:23
S40	106	((e$mail or (electronic near4 mail))) same authoriz$6 and capabilit$3 and transcod$3	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/15 18:23
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